

INTERNATIONAL SEARCH REPORT

International ation No

PCT 03/04027

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J31/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 560 434 A (PHILIPS ELECTRONICS NV) 15 September 1993 (1993-09-15) column 4, line 22-37	1,6
A	US 5 781 166 A (VAN GORKOM GERARDUS G P ET AL) 14 July 1998 (1998-07-14) cited in the application the whole document	1-7
A	EP 0 550 103 A (KONINKL PHILIPS ELECTRONICS NV) 7 July 1993 (1993-07-07) column 4, line 5-10	1-6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

13 January 2004

Date of mailing of the international search report

19/01/2004

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PCT 03/04027

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0560434	A	15-09-1993	CN 1076808 A	29-09-1993
			DE 69303069 D1	18-07-1996
			DE 69303069 T2	05-12-1996
			EP 0560434 A1	15-09-1993
			JP 3415870 B2	09-06-2003
			JP 6068814 A	11-03-1994
			US 5625253 A	29-04-1997
<hr/>				
US 5781166	A	14-07-1998	EP 0702844 A1	27-03-1996
			WO 9527997 A1	19-10-1995
			JP 8511904 T	10-12-1996
<hr/>				
EP 0550103	A	07-07-1993	DE 69225124 D1	20-05-1998
			DE 69225124 T2	29-10-1998
			EP 0550103 A1	07-07-1993
			JP 5266831 A	15-10-1993
			US 5637954 A	10-06-1997
			US 5489815 A	06-02-1996
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